

TOUGH TRACKER INSTALLATION AND REMOVAL GUIDE

SAFETY ADVISORY

Tough Tracker units contain high-energy Lithium batteries as well as other electrical components. The warning **"DO NOT TAMPER"** means; **DO NOT** attempt to dismantle, cut, open, crush, bend, puncture or drill the ToughTracker case: Serious personal injury may occur as a result.

- If a battery leak is suspected, **DO NOT** let battery liquid touch skin or eyes. If this happens, immediately flush the **affected areas with plenty of cold water for at least 15 minutes and seek medical help.**
- **DO NOT** modify, remanufacture or attempt to insert foreign objects into the case.
- If you wish to remove a fitted Tough Tracker from your protected asset at the end of its economic life, it is vital that you **DO NOT cut through your Tough Tracker to remove it.**
- The battery inside the Tough Tracker may explode if damaged.
- **DO NOT** incinerate as explosion may occur.
- The casing and internal filling of your ToughTracker are fire resistant.
- However in the event of a serious fire, copious cold water is effective to prevent expansion of the fire (more than the contents of a normal fire extinguisher will be needed).
 - **DO NOT** use warm or hot water
 - **DO NOT** use CO2 or Halon extinguishers
 - Dry chemical extinguishers have little effect
- **Firefighters – in the event of a serious fire please note:**
 - We recommend self-contained breathing apparatus.
 - We recommend full protective clothing.
 - Water application may cause burning lithium to be ejected from the fire.
 - Small amounts of water should not be used (i.e. volumes usually in a fire extinguisher).
 - Hydrogen hazard when hot lithium comes into contact with water.
 - Halon use can generate toxic gasses.
- There are **no user serviceable parts** inside this unit.
- Only use the Tough Tracker unit for its intended purpose. Improper use may present a risk of fire, **explosion or other hazard** and may invalidate any approval or warranty.
- **CAUTION:** The Tough Tracker back plate may have sharp edges. Always wear protective gloves when handling.

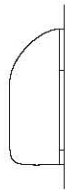
If you believe that the battery inside this unit may be damaged, please contact Concirrus for advice at the above address or telephone number. Disposal advice is provided at the end of this document.

FIXING TOUGH TRACKER TO YOUR ASSET

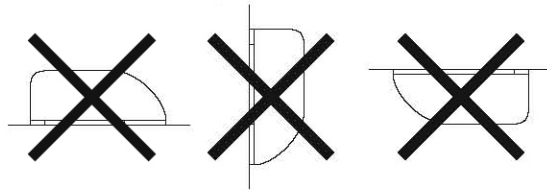
Your Tough Tracker is intended to be PERMANENTLY attached to the asset it is protecting; ensure you choose the location of fitting carefully. Follow these guidelines for suitable placing of your Tough Tracker:

- As your Tough Tracker uses a combination of GPS and other RF technologies, it is important that the unit is placed on the **outside of any asset to be tracked, not within e.g. inside a container.**
- Orient your Tough Tracker so that the upper half of the device has a clear “view” of the sky and is not obstructed by large metallic objects or surfaces.

Correct



Incorrect



- Although your Tough Tracker is extremely robust **not locating the unit where it can be constantly knocked during operation – e.g. near lifting fittings, etc.**
- Your Tough Tracker is fire resistant, but we recommend **not locating the unit where it will be exposed to naked flame or an intense heat source.**
- Should you need to remove the Tough Tracker from your asset please follow the instructions in the **Tough Tracker removal guide.**
- **CAUTION:** The Tough Tracker back plate may have sharp edges. Always wear protective gloves when handling.

There are two methods you can use to fit your Tough Tracker to your asset:

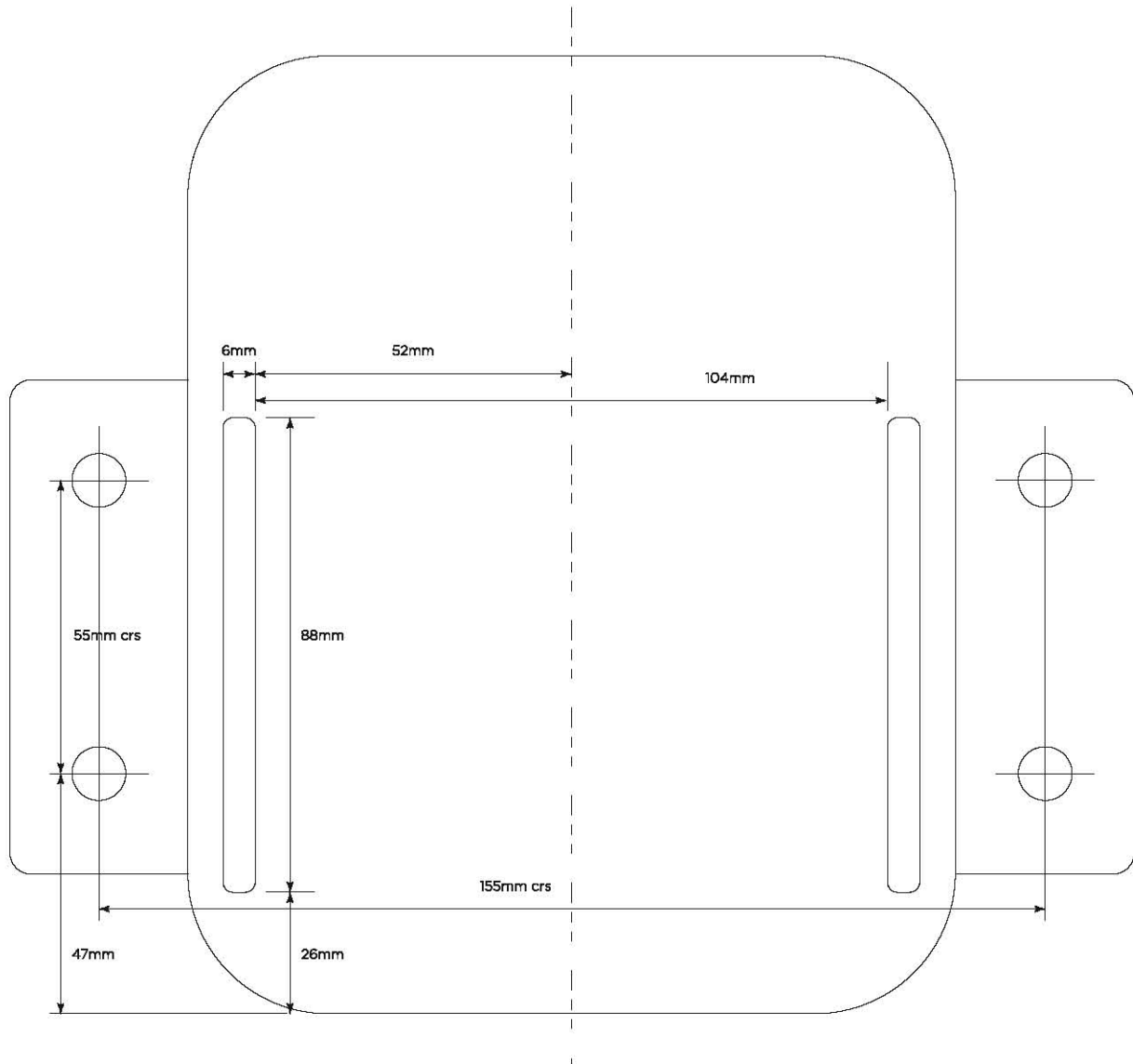
METHOD 1: INSTALL USING SECURITY BOLTS (SUPPLIED)

- **N.B** Once fitted and tightened, these bolts are designed **to be non-removable.** The bolts are M10 x 35mm with a 17mm head. The shear butt is 19mm.
- The asset will need to be drilled in your chosen location. Drill holes 10.5mm clear.
- To insert the bolts, you will need to be able to access the holes from the rear.
- Mark the position of the holes to be drilled using either the Tough Tracker itself or the template provided.
- Locate your Tough Tracker unit into place, insert and tighten the shear nuts until they separate.

METHOD 2: INSTALL BY WELDING

- The Tough Tracker back plate is made from stainless steel, so to weld your Tough Tracker to your asset, you **must use a dissimilar metal welding rod (recommended low gauge stainless wire).**
- For Tough Tracker supplied without a back plate use the template provided to mark and cut 2 slots in your asset. For Tough Tracker with a back plate, use the edges of the mounting flanges to securely weld the ToughTracker to the asset.
- **Generating excessive heat** while welding can detriment the internal resin composite within the ToughTracker. Avoid creating seams by placing tacks at each corner and through the bolt-holes, this is generally sufficient to bond the Tough Tracker securely to the asset.
- **Please ensure that care is taken whilst welding your Tough Tracker in place.** Your Tough Tracker is fire resistant, but serious personal harm may ensue if the unit is set alight. Use a suitable shield between the Tough Tracker case and the area to be welded.
- Please see the **Tough Tracker Product Safety Sheet** for more details.

TOUGH TRACKER MOUNTING TEMPLATE



DRAWING NOT TO SCALE

REMOVING YOUR TOUGH TRACKER FROM YOUR ASSET

Your Tough Tracker unit is intended to be PERMANENTLY attached to the asset it is protecting for the lifetime of the asset. Consequently, we recommend only removing your Tough Tracker when the protected asset has come to the end of its economic life.

WARNING

This Tough Tracker unit contains high energy Lithium batteries as well as electrical components.

DO NOT attempt to dismantle, cut, open, crush, bend, puncture or drill the Tough Tracker case: serious personal injury may occur as a result.

DO NOT modify, remanufacture or attempt to insert foreign objects into the case.

If you wish to remove a fitted Tough Tracker from your protected asset at the end of its economic life, it is vital that you **DO NOT** cut through, or into, your Tough Tracker unit to remove it.

There are **two** methods that you can use for removing your Tough Tracker from your asset:

REMOVAL METHOD 1:

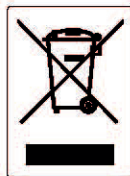
If your Tough Tracker is fixed in place by the supplied steel bolts, we recommend using a grinder to cut through the bolts. If your Tough Tracker is fixed in place by welds, you may use an angle-grinder to cut through the welds. **DO NOT cut into, through or penetrate the Tough Tracker itself.** Your Tough Tracker unit can then be removed – (see below for disposal) **IT IS VITAL** that you **DO NOT** cut into the Tough Tracker whilst you are doing this – serious personal injury may occur as a result.

REMOVAL METHOD 2:

Alternatively, you may choose to use cutting equipment to cut around outside the entire unit and base plate.

TOUGH TRACKER DISPOSAL:

- Concirrus Limited is registered for the Waste Electrical and Electronic Equipment Directive (WEEE) and operates under regulation 12.2 (Reg. No. WEE/MM4454AA)
- Please don't throw electrical equipment, including items marked with this symbol, in your household waste:



- Unwanted electrical equipment is the UK's fastest growing type of waste. Many electrical items can be repaired or recycled, saving natural resources and the environment.
- If you do not recycle electrical items they will end up in landfill where hazardous substances will leak and cause contamination to soil and water, harming wildlife and also human health.
- The Waste Electrical and Electronic Equipment (WEEE) Directive requires countries to maximise separate collection and environmentally friendly processing of these items.